

CURRICULUM VITAE

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Current Employment:	Chief: Unit on Functional Imaging Methods, LBC Director: Functional MRI Facility, NIH	
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Birth Date and Place:	January 17, 1966, Milwaukee, Wisconsin	
Education:	1989 B.S., Physics, Marquette University 1994 Ph.D., Medical College of Wisconsin	
Ph.D. Dissertation Title:	Magnetic Resonance Imaging of Human Brain Activation using Endogenous Susceptibility Contrast. Co-advisors: R. Scott Hinks, James, S. Hyde	
Postgraduate Training:	1994-96	MGH-NMR Center / Harvard Medical School, Boston, MA Supervisor: Bruce Rosen
Other Employment:	1996-98	Assistant Professor, Medical College of Wisconsin, Biophysics Research Institute
	1998-	Adjunct Professor, Medical College of Wisconsin, Biophysics Research Institute
	1997-	Adjunct Professor, Marquette University Department of Biomedical Engineering
Awards, Honors:	1984-88	MU Academic Scholarship.
	1984-88	MU Athletic Scholarship.
	1987	NSF Fellowship recipient.
	1989	Research Fellowship, MCW.
	1990	McCahill award for Academic and Athletic Leadership at MU
	2001	NIH Directors Award
	2002	Wiley Young Investigator Award Recipient
	2003	Dominican High School Athletic Hall of Fame

Memberships in Professional Societies:

International Society of Magnetic Resonance in Medicine (ISMRM)
Organization for Human Brain Mapping (OHB)M

Cognitive Neuroscience Society (CNS)
Society for Neuroscience (SFN)
Greater Washington DC Speakers Bureau

Professional Activities:

Council (president-elect), Organization for Human Brain Mapping, 2004-2005.

Council (secretary), OHBM 1999-2001

Program Committee for OHBM meetings in Copenhagen '97, Duesseldorf '99, San Antonio '00, Brighton '01, Sendai '02, New York '03, Budapest '04, Toronto '05

Chair, Education Committee, OHBM, 2000 and 2001

-Organized educational program for the Human Brain Mapping Meetings in San Antonio (2000) and Brighton (2001).

Chair, Nominating Committee, OHBM, 2000

Chair, Scientific Program Committee, OHBM, 2002 in Sendai

ISMRM Young Investigator Award Committee (2001,2)

Editorial Board:

NeuroImage (2000 – present)

Magnetic Resonance in Medicine (2004 – present)

Associate Editor:

Human Brain Mapping (2003 – present)

Member of external advisory committee for:

The National fMRI Database Center, Dartmouth College (1999-2003)

The Center for Functional MRI, University of California, San Diego (2002-present)

Ph.D. Thesis Committee for:

Rongyan Zhang, Medical College of Wisconsin (1996)

Rasmus Birn, Medical College of Wisconsin (1998)

Ziad Saad, Marquette University (1998)

John Agnew, Georgetown University (2003)

Anthony Liu, University of Texas, San Antonio (2000)

Hanbing Lu, Medical College of Wisconsin (2003)

Natalia Petridou, George Washington University (2005)

Manuscript Reviewer for:

Human Brain Mapping

Journal of Magnetic Resonance Imaging

Magnetic Resonance Imaging

Magnetic Resonance in Medicine

Nature

Nature Neuroscience

NeuroImage

Neuron
Proceedings of the National Academy of Sciences
Science

Papers

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2. P. A. Bandettini, E. C. Wong, R. S. Tikofsky, R. S. Hinks, J. S. Hyde, Time course EPI of human brain function during task activation. *Magn. Reson. Med.* **25**, 390-397 (1992).
3. J. T. Eells, P. A. Bandettini, P. A. Holman, J. M. Propp, Pyrethroid insecticide induced alterations in mammalian synaptic membrane potential. *Journal of Pharmacology and Experimental Therapeutics* **262**, 1173-1181 (1992).
4. P. A. Bandettini, A. Jesmanowicz, E. C. Wong, J. S. Hyde, Processing strategies for time-course data sets in functional MRI of the human brain. *Magn. Reson. Med.* **30**, 161-173 (1993).
5. J. T. Eells, J. L. Rasmussen, P. A. Bandettini, J. M. Propp, Differences in neuroexcitatory actions of pyrethroid insecticides and sodium channel specific neurotoxins in rat and trout brain synaptosomes. *Toxicology and Applied Pharmacology* **123**, 107-119 (1993).
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7. P. A. Bandettini, E. C. Wong, A. Jesmanowicz, R. S. Hinks, J. S. Hyde, Spin-echo and gradient-echo EPI of human brain activation using BOLD contrast: a comparative study at 1.5 Tesla. *NMR in Biomedicine* **7**, 12-20 (1994).
8. J. J. Sychra, P. A. Bandettini, N. Bhattacharya, Q. Lin, Synthetic images by subspace transforms I: principal components images and related filters. *Med. Phys.* **21**, 193-201 (1994).
9. J. R. Binder, S. M. Rao, T. A. Hammeke, F. Z. Yetkin, A. Jesmanowicz, P. A. Bandettini, E. C. Wong, L. D. Estkowski, M. D. Goldstein, V. M. Haughton, J. S. Hyde, Functional magnetic resonance imaging of human auditory cortex. *Ann. Neurol.* **35**, 662-672 (1994).
10. J. R. Binder, S. M. Rao, T. A. Hammeke, J. A. Frost, P. A. Bandettini, J. S. Hyde, Effects of stimulus rate on signal response during functional magnetic resonance imaging of auditory cortex. *Cogn. Brain Res.* **2**, 31-38 (1994).
11. G. L. Morris, W. M. Mueller, F. Z. Yetkin, H. V. M., T. A. Hammeke, S. Swanson, S. M. Rao, A. Jesmanowicz, L. D. Estkowski, P. A. Bandettini, E. C. Wong, J. S. Hyde, Functional magnetic resonance imaging in partial epilepsy. *Epilepsia* **35**, (1994).
12. E. A. DeYoe, P. A. Bandettini, J. Nietz, D. Miller, P. Winas, Methods for functional magnetic resonance imaging (fMRI). *J. Neuroscience Methods* **54**, 171-187 (1994).
13. J. R. Binder, T. A. Rao, J. A. Hammeke, J. A. Frost, P. A. Bandettini, A. Jesmanowicz, J. S. Hyde, Lateralized human brain language systems demonstrated by task subtraction functional magnetic resonance imaging. *Arch. Neurol.* **52**, 593-601 (1995).

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15. P. A. Bandettini, E. C. Wong, The effects of biophysical and physiologic parameters on brain activation - induced R2* and R2 changes: simulations using a deterministic diffusion model. *International Journal of Imaging Systems and Technology* **6**, 133-152 (1995).
16. S. M. Rao, J. R. Binder, T. A. Hammeke, P. A. Bandettini, J. A. Bobholz, J. A. Frost, B. M. Myklebust, R. D. Jacobson, J. S. Hyde, Somatotopic mapping of the human primary motor cortex with functional magnetic resonance imaging. *Neurology* **45**, 919-924 (1995).
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40. E. L. Barbier, S. Marrett, A. Danek, A. Vortmeyer, P. van Gelderen, J. Duyn, P. Bandettini, J. Grafman, A. P. Koretsky, Imaging cortical anatomy by high resolution MR at 3.0 T: detection of the Stripe Gennari in Visual Area 17. *Magn. Reson. Med.* **48**: 735-738, (2002)
41. Z. S. Saad, K. M. Ropella, E. A. DeYoe, P. A. Bandettini, The spatial extent of the BOLD response. *NeuroImage*, **19**: 132-144, (2003).

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45. D. C. Knight, H. T. Nguyen, P. A. Bandettini, Expression of conditional fear with and without awareness, *Proc. Nat'l. Acad. Sci. USA* **100**, 15280-15283 (2003).
46. H. R. Heekeren, S. Marrett, P. A. Bandettini, L. G. Ungerleider, A general mechanism for perceptual decision making in the human brain. *Nature* **43**, 859-862 (2004).
47. R.M. Birn, R. W. Cox, P. A. Bandettini, Functional MRI experimental designs and processing strategies for studying brain activation associated with overt responses. *NeuroImage*, **23** 1046-1058 (2004) .
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49. P. A. Bandettini, N. Petridou, J. Bodurka, Direct detection of neuronal activity with MRI: fantasy, possibility, or reality? *Applied MRI* (*submitted*). [\[CrossRef\]](#)
50. R.M. Birn, P. A. Bandettini, The effect of stimulus duty cycle and "off" duration on BOLD response linearity, *NeuroImage*, (*submitted*).

Book Chapters

1. P. A. Bandettini, E. C. Wong, J. R. Binder, S. M. Rao, A. Jesmanowicz, E. A. Aaron, T. F. Lowry, H. M. Forster, R. S. Hinks, J. S. Hyde, Functional MRI using the BOLD approach: applications, *in* "Diffusion and Perfusion Magnetic Resonance Imaging" (D. LeBihan, Ed.), p.335-349, Raven Press, New York, 1995.
2. P. A. Bandettini, J. R. Binder, E. A. DeYoe, S. M. Rao, A. Jesmanowicz, T. A. Hammeke, V. A. Haughton, E. C. Wong, J. S. Hyde, Functional MRI using the BOLD approach: dynamic characteristics and data analysis methods, *in* "Diffusion and Perfusion: Magnetic Resonance Imaging" (D. L. Bihan, Ed.), p.351-362, Raven Press, New York, 1995.
3. P. A. Bandettini, J. R. Binder, E. A. DeYoe, J. S. Hyde, Sensory activation - induced hemodynamic changes observed in the human brain with echo planar MRI, *in* "Encyclopedia of Nuclear Magnetic Resonance" (D. Grant, R. Harris, Eds.), p.1051-1056, John Wiley & Sons Ltd., New York, 1996.
4. P. A. Bandettini, E. C. Wong, Echo - planar magnetic resonance imaging of human brain activation, *in* "Echo Planar Imaging: Theory, Technique, and Application" (F. Schmitt, M. Stehling, R. Turner, Eds.), p.493-530, Springer - Verlag, Berlin, 1997.
5. P. A. Bandettini, E. C. Wong, Magnetic resonance imaging of human brain function: principles, practicalities, and possibilities, *in* "Neurosurgery Clinics of North America: Functional Imaging" (M. Haglund, Ed.), p.345-371, W. B. Saunders Co., 1997.
6. R. M. Birn, K. M. Donahue, P. A. Bandettini, Magnetic resonance imaging: principles, pulse sequences, and functional imaging, *in* "Biomedical Uses of Radiation" (W. Hendee, Ed.), Vol.1, Chapter 9. VCH-John Wiley and Sons, New York, 1999.
7. P. A. Bandettini, The temporal resolution of Functional MRI *in* "Functional MRI" (C. Moonen, and P. Bandettini., Eds.), p. 205-220, Springer - Verlag., 1999.
8. E. C. Wong, P. A. Bandettini, Simultaneous acquisition of multiple forms of fMRI contrast *in* "Functional MRI" (C. Moonen, and P. Bandettini, Eds.), p. 183-192, Springer - Verlag, 1999.
9. P. A. Bandettini, R. M. Birn, K. M. Donahue, Functional MRI: background, methodology, limits, and implementation, *in* "Handbook of Psychophysiology" (J. T. Cacioppo, L. G. Tassinary, G. G. Berntson, Eds.), p. 978-1014, Cambridge University Press, New York, 2000.
10. E. Reiman, R. D. Lane, C. Van Petten, P. A. Bandettini, Positron emission tomography and functional magnetic resonance imaging, *in* "Handbook of Psychophysiology" (J. T. Cacioppo, L. G. Tassinary, G. G. Berntson, Eds.), p. 85-118, Cambridge University Press, New York, 2000.
11. P. A. Bandettini, fMRI: The spatial, temporal, and interpretative limits of functional MRI, *in* "Neuropsychopharmacology: The Fifth Generation of Progress." (D. Charney, J. Coyle, K. Davis, C. Nemeroff, Eds.), p. 344-357, Lippencott Williams & Wilkins, in press.
12. P. A. Bandettini, Choosing the optimal pulse sequence for fMRI *in* "Functional Magnetic Resonance Imaging of the Brain: Methods for Neuroscience" (P. M. Matthews, P. Jezzard, A. Evans), p. 123-143, Oxford University Press, 2001.

13. P. A. Bandettini, Functional MRI in "Handbook of Neuropsychology" (F. Boller and J. Grafman, Eds.), Elsevier, 2002, [\[1\]](#)
14. T. A. Russell, F. Zelaya, R. A. Bressan, P. A. Bandettini, Functional Neuroimaging: an introduction to the technology, methodology, interpretation, and applications, in "Psychiatric Neuroimaging" (C. H. Y. Fu, C. Senior, T. A. Russell, D Weinberger, & R Murray, Eds.). p. 1-50, Dunitz Press, 2002 [\[2\]](#)
15. S.-G. Kim and P. A. Bandettini, Principles of Functional MRI, in "Functional MRI" (S.H. Faro and F.B Mohamed, Eds.), Springer-Verlag, *(in press)*, 2003.

Books

1. P. A. Bandettini, Ph.D. Thesis: *Magnetic Resonance Imaging of Human Brain Activation using Endogenous Susceptibility Contrast*, Biophysics Research Institute, Medical College of Wisconsin, Milwaukee (1994).
2. Functional MRI, (C. T. W. Moonen, P. A. Bandettini, Eds.), Springer - Verlag, Berlin (1999).

Patents

1. US Patent # 5603,332, Feb 18, 1997, Time Course MRI Imaging of Brain Functions. Andrej Jesmanowicz, Peter A. Bandettini, James S. Hyde, Eric C. Wong.

Abstracts

1. J. T. Eells, P. A. Bandettini, Pyrethroid insecticides alter membrane potential in fish and rat brain synaptosomes, 7'th Annual Society of Toxicology Meeting, Dallas, p. 193. (1988).
2. P. A. Bandettini, E. C. Wong, C. R. Crawford, J. S. Hyde, Selective averaging of multiple MR images, 10'th Proc. Soc. Magn. Reson. Med., San Francisco, p. 737. (1992).
3. P. A. Bandettini, E. C. Wong, R. S. Tikofsky, R. S. Hinks, J. S. Hyde, Echo-planar imaging of cerebral capillary percent deoxyhemoglobin change on task activation [oral], JMRI 2(P) [abstr], p. 76. (1992).
4. Wong, P. A. Bandettini, J. S. Hyde, Echo - planar imaging of the human brain using a three axis local gradient coil [oral], 11'th Proc. Soc. Magn. Reson. Med., Berlin, p. 105. (1992).
5. P. A. Bandettini, E. C. Wong, R. S. Tikofsky, R. S. Hinks, J. S. Hyde, Time-course gradient-echo EPI of localized signal enhancement in the human brain during task activation [oral], 11'th Proc. Soc. Magn. Reson. Med., Berlin, p. 302. (1992).
6. P. A. Bandettini, E. C. Wong, A. S. Greene, R. S. Hinks, J. S. Hyde, Echo-planar and conventional imaging of signal attenuation in skeletal muscle during arterial compression [oral], 11'th Proc. Soc. Magn. Reson. Med., Berlin, p. 321. (1992).
7. P. A. Bandettini, E. C. Wong, R. S. Hinks, L. Estkowski, J. S. Hyde, Quantification of changes in relaxation rates $R2^*$ and $R2$ in activated brain tissue [oral], 11'th Proc. Soc. Magn. Reson. Med., Berlin, p. 719. (1992).
8. P. A. Bandettini, E. C. Wong, R. S. Hinks, J. S. Hyde, Time-course spin-echo and gradient-echo EPI of the human brain during a breath hold, 11'th Proc. Soc. Magn. Reson. Med., Berlin, p. 1104. (1992).
9. DeYoe, J. Neitz, P. A. Bandettini, E. C. Wong, J. S. Hyde, Time course of event-related MR signal enhancement in visual and motor cortex, 11'th Proc. Soc. Magn. Reson. Med., p. 1824. (1992).
10. S. M. Rao, et al., Gradient-echo EPI demonstrates bilateral superior temporal gyrus activation during passive word presentation, 11'th Proc. Soc. Magn. Reson. Med., Berlin, p. 1827. (1992).

11. W. M. Meuller, et al., Brain function mapping with magnetic resonance imaging for neurosurgical planning [oral], 61'st Mtg. American Association of Neurological Surgeons, Boston, p. 343-344. (1993).
12. P. A. Bandettini, et al., Fourier analysis of functional EPI time series [oral], *JMRI* 3(P) [abstr], p. 89. (1993).
13. P. A. Bandettini, E. C. Wong, L. D. Estkowski, R. S. Hinks, J. S. Hyde, Spin-echo EPI of localized signal enhancement in the human brain during task activation [oral], *JMRI* 3(P) [abstr] , 63 (1993).
14. Morris, et al., Functional MRI in patients with epilepsy, American Neurological Society Meeting, p. 299. (1993).
15. Bandettini, et al., Magnetic resonance functional neuroimaging of the entire brain during performance and mental rehersal of complex finger movement tasks, 12'th Proc. Soc. Magn. Reson. Med., New York, p. 1396. (1993).
16. Bandettini, et al., The functional dynamics of blood oxygenation level contrast in the motor cortex, 12'th Proc. Soc. Magn. Reson. Med., New York, p. 1382. (1993).
17. Bandettini, E. C. Wong, A. Jesmanowicz, R. S. Hinks, J. S. Hyde, Simultaneous mapping of activation-induced $\Delta R2^*$ and $\Delta R2$ in the human brain using a combined gradient-echo and spin-echo EPI pulse sequence [oral], 12'th Proc. Soc. Magn. Reson. Med., New York, p. 169. (1993).
18. Bates, et al., The oxygen artifact in echo-planar imaging [oral], 12'th Proc. Soc. Magn. Reson. Med., New York, p. 174. (1993).
19. Bates, et al., Activation of the human cerebellum demonstrated by functional magnetic resonance imaging, 12'th Proc. Soc. Magn. Reson. Med., New York, p. 1420. (1993).
20. J. R. Binder, et al., Analysis of phase differences in periodic functional MRI activation data, 12'th Proc. Soc. Magn. Reson. Med., New York, p. 1383. (1993).
21. J. R. Binder, et al., Temporal characteristics of functional magnetic resonance signal changes in lateral frontal and auditory cortex [oral], 12'th Proc. Soc. Magn. Reson. Med., New York, p. 5. (1993).
22. Biswal, P. A. Bandettini, A. Jesmanowicz, J. S. Hyde, Time - frequency analysis of functional EPI time - course series, 12'th Proc. Soc. Magn. Reson. Med., New York, p. 722. (1993).
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24. S. M. Rao, et al., Somatopic mapping of the primary motor cortex with functional magnetic resonance imaging, 12'th Proc. Soc. Magn. Reson. Med., New York, p. 1397. (1993).
25. Wong, P. A. Bandettini, A deterministic method for computer modelling of diffusion effects in MRI with application to BOLD contrast imaging [oral], 12'th Proc. Soc. Magn. Reson. Med., New York, p. 10. (1993).

26. L. Miller, E. A. DeYoe, J. Neitz, P. A. Bandettini, J. S. Hyde, Mapping of the human visual cortex utilizing functional magnetic resonance imaging (fMRI) [oral], *Invest. Ophthalmol. Vis. Sci.*, Sarasota, p. 813 (#557). (1993).
27. M. Mueller, et al., Cortical localization with magnetic resonance imaging compared to direct stimulation mapping, Annual Meeting of the World Society for Stereotactic and Functional Neurosurgery, p. . (1993).
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29. P. A. Bandettini, et al., Hypercapnia and hypoxia in the human brain: effects on resting and activation - induced signal changes in the human brain, 2nd Proc. Soc. Magn. Reson., San Francisco, p. 700. (1994).
30. P. A. Bandettini, et al., Simultaneous assessment of blood oxygenation and flow contributions to activation - induced signal changes in the human brain [oral], 2nd Proc. Soc. Magn. Reson., San Francisco, p. 621. (1994).
31. P. A. Bandettini, et al., MRI of human brain activation at 0.5 T, 1.5 T, and 3.0 T: comparisons of $\Delta R2^*$ and functional contrast to noise ratio [oral], 2nd Proc. Soc. Magn. Reson., San Francisco, p. 434. (1994).
32. J. R. Binder, et al., Syllable rate determines functional MRI response magnitudes during a speech discrimination task [oral], 2nd Proc. Soc. Magn. Reson., San Francisco, p. 327. (1994).
33. J. R. Binder, et al., A lateralized distributed network for semantic processing demonstrated with whole brain functional MRI, 2nd Proc. Soc. Magn. Reson., San Francisco, p. 694. (1994).
34. J. R. Binder, et al., Identification of auditory, linguistic, and attentional systems with task subtraction functional MRI, 2nd Proc. Soc. Magn. Reson., San Francisco, p. 681. (1994).
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155. A. Boemio, W. M. Luh, S. Kalluri, P. A. Bandettini, An fMRI and MEG study of harmonic fusion. International Conference on Functional Mapping of the Human Brain, Budapest, (2004).
156. R. M. Birn, K. E. Bove-Bettis, P. A. Bandettini, Calibrating BOLD fMRI response latencies using Gd-DTPA bolus washout dynamics. International Conference on Functional Mapping of the Human Brain, Budapest, (2004).
157. A. G. Thomas, H. R. Heekeren, Z. Saad, P. A. Bandettini, S. Marrett, In-vivo analysis of cortical myeloarchitecture using high-resolution MRI and cortical surfaces. International Conference on Functional Mapping of the Human Brain, Budapest, (2004).
158. M. Maierov, C. A. Porro, P. A. Bandettini, BOLD latency: relationship to stimulus duration. International Conference on Functional Mapping of the Human Brain, Budapest, (2004).
159. A. S. Tuan, R. M. Birn, G. M. Boynton, P. A. Bandettini, Non-linear onset MEG response in ramped stimuli in V1 suggests BOLD nonlinearity is neuronal in origin. International Conference on Functional Mapping of the Human Brain, Budapest, (2004).
160. K. E. Bove-Bettis, R. M. Birn, J. D. Heiss, J. A. Bodurka, P. A. Bandettini, Case report: clinical use of susceptibility weighted MR venograph. 12'th Proc. Int. Soc. Magn. Reson. Tech., Kyoto, JP. (2004).
161. P. L. Rowser, J. H. Ebron, R. M. Birn, W.-M. Luh, P. A. Bandettini, Can fMRI studies be performed across scanners? A comparison of fMRI results between two 3T scanners. 12'th Proc. Int. Soc. Magn. Reson. Tech., Kyoto, JP. (2004).

162. D. C. Knight, H.T. Nguyen, P. A. Bandettini, Expression of conditional fear with and without awareness. Annual Cognitive Neuroscience Society Meeting, San Francisco, CA (2004). [\[2\]](#)
163. H. T. Nguyen, D. C. Knight, P. A. Bandettini, Role of awareness in Pavlovian delay and trace fear conditioning, 34'th Annual Society for Neuroscience Meeting, San Diego (2004). [\[2\]](#)
164. N. Kriegeskorte, E. Formisano, B. Sorger, P.-F. Van De Moortele, J Ritter, G. Adriany, K. Ugurbil, R. Goebel, P. Bandettini, 34'th Annual Society for Neuroscience Meeting, San Diego (2004). [\[2\]](#)
165. H. R. Heekeren, S. Marrett, D. A. Ruff, P. A. Bandettini, L. G. Ungerleider, Representation of prior probability in face sensitive regions in the human brain. 34'th Annual Society for Neuroscience Meeting, San Diego (2004). [\[2\]](#)
166. A. G. Thomas, H. R. Heekeren, Z. Saad, P. A. Bandettini, S. Marrett, In-vivo analysis of cortical myeloarchitecture using high-resolution MRI and cortical surfaces. 34'th Annual Society for Neuroscience Meeting, San Diego (2004). [\[2\]](#)
167. A. Boemio, P. A. Bandettini, Functional evoked beta oscillations during visual object processing. 34'th Annual Society for Neuroscience Meeting, San Diego (2004). [\[2\]](#)
168. N. Kriegeskorte, E. Formisano, B. Sorger, P.-F. Van De Moortele, J. Ritter, G. Adriany, K. Ugurbil, R. Goebel, P. Bandettini, Is there a face-exemplar representation in human anterior inferotemporal cortex? International Conference on Functional Mapping of the Human Brain, Budapest, (2004).
169. A. Tuan, R. M. Birn, G. M. Boynton, P. A. Bandettini, Nonlinear fMRI and MRG response in ramped stimuli in visual cortex suggests BOLD nonlinearity is neuronal in origin. 34'th Annual Society for Neuroscience Meeting, San Diego (2004). [\[2\]](#)
170. J. Bodurka, F. Ye, N. Petridou, P. Bandettini, Voxel-wise mapping of optimal fMRI voxel volume. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[2\]](#)
171. J. Bodurka, W.-M. Luh, P. Bandettini, Rapid T1 mapping from EPI time course, application to image segmentation. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [rejected]
172. J. Bodurka, F. Ye, N. Petridou, P. Bandettini, Determination of the brain tissue-specific temporal signal to noise limit of 3T BOLD weighted time course data. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[2\]](#)
173. N. Petridou, A. C. Silva, D. Plenz, J. Bodurka, P. A. Bandettini, Direct MR detection of neuronal electrical activity in vitro at 7T. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[2\]](#)
174. R. M. Birn, D. Leopold, P. A. Bandettini, Comparison of methods for deriving BOLD calibration maps: breath-hold, spontaneous fluctuations in respiration volume, and end-tidal CO₂. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[2\]](#)
175. W.-M. Luh, S. L. Talagala, P. A. Bandettini, Voxel-wise comparison of cerebral blood flow using arterial spin labeling and dynamic susceptibility contrast-enhanced MR

- perfusion imaging. W.-M. Luh, Y.-H. Kao, P. A. Bandettini, 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[1\]](#)
176. W.-M. Luh, S. L. Talagala, P. A. Bandettini, Voxel-wise comparison of quantitative perfusion imaging using pulsed and continuous arterial spin labeling techniques at 3T. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[2\]](#)
177. A. W. Song, P. A. Bandettini, The influence of intra-voxel BOLD signal heterogeneity on functional ADC changes: error estimation and correction. 13'th Proc. Int. Soc. Magn. Reson. Med., Miami, FL. (2005). [\[3\]](#)
178. N. Kriegeskorte, J. Bodurka, P. Bandettini, Local time-course correlation in echoplanar imaging and its implications for studies of brain function, International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).
179. W.-M. Luh, Y.-H. Kao, P. Bandettini, Comparison of resting cerebral blood flow using arterial spin labeling and dynamic susceptibility contrast-enhanced MR perfusion imaging, International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).
180. D. C. Knight, H. T. Nguyen, P. A. Bandettini, Differences in the functional connectivity of the left and right amygdala. International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).
181. A. Boemio, S. Marrett, H. Heekeren, L. Ungerleider, P. Bandettini, A MEG study of perceptual decision making. International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).
182. A. Boemio, P. Bandettini, A general method for identifying components in MEG data prior to source analysis. International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).
183. J. Diamond, R. Birn, P. Bandettini, Low frequency respiration fluctuations co-localize with “default-mode” network. International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).
184. R. Birn, M. Smith, P. Bandettini, Mapping and correcting the effects of respiratory variations in fMRI. International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005). [rejected]
185. D. A. Ruff, H. R. Heekeren, S. Marrett, P. A. Bandettini, L. G. Ungerleider, Representation of prior probability in face sensitive regions in the human brain. International Conference on Functional Mapping of the Human Brain, Toronto, CA (2005).

Presentations

1. March, 1991 “Non-standard uses of echo-planar imaging” Biophysics Dept., Medical College of Wisconsin
2. Dec, 1991 University of Chicago Hospital, Chicago, IL
3. March, 1992 Dissertation Outline Defense, Milwaukee, WI

4. June, 1992 University of Chicago Hospital, Chicago, IL
5. July, 1992 GE Medical Systems, Milwaukee, WI
6. Oct, 1992 McKesson Hospital, Sioux Falls, SD
7. Oct, 1992 Charter Hospital, Sioux Falls, SD
8. Oct, 1992 Froedert Memorial Hospital, Milwaukee, WI
9. Nov, 1992 Wisconsin Neurosurgeons Annual Meeting, Milwaukee, WI
10. Dec, 1992 Milwaukee County Hospital, Milwaukee, WI
11. April, 1993 Seventeenth Annual Great Lakes Biomedical Conference, Racine, WI
12. May, 1993 Medical College of Wisconsin Council Meeting, Milwaukee, WI
13. June, 1993 Functional MRI of the Brain, Arlington, VA
14. Nov, 1993 First Midwest Course on fMRI, Milwaukee, WI
15. Sept, 1993 University of California, Los Angeles, Los Angeles, CA
16. Oct, 1993 University of Texas Health Science Center, San Antonio, TX
17. Oct, 1993 Teknisk Aften, Oslo Norway
18. Nov, 1993 National Institutes of Health, Bethesda, MD
19. Dec, 1993 Stanford University, Palo Alto, CA
20. Dec, 1993 University of Wisconsin, Madison, Madison, WI
21. Dec, 1993 MGH - NMR Center, Charlestown, MA
22. Feb, 1994 Michigan State University, East Lansing, MI
23. June, 1994 University of Florida, Gainesville, FL
24. Aug, 1994 Society of Magnetic Resonance mini – cat. course, San Francisco, CA
25. Sept, 1994 MacArthur Foundation, Chicago, IL
26. Oct, 1994 Ph. D. Dissertation Defense, Biophysics Research Institute, Medical College of Wisconsin, Milwaukee, WI
27. Nov, 1994 Second Midwest Course on fMRI, Madison, WI
28. Jan, 1995 McDonnell Pew Foundation, Tucson, AZ
29. Feb, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
30. April, 1995 Marquette University Physics Dept., Milwaukee, WI
31. May, 1995 Washington University School of Medicine, St. Louis, MO
32. May, 1995 M.D. Anderson Cancer Center, Houston, TX
33. June, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
34. Sept. 1995 University of Arizona, Tucson, AZ
35. Oct, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
36. Jan, 1996 Research Institute of Brain and Blood Vessels, Akita, Japan
37. Jan, 1996 Human Brain Project, Wakula Springs, FL
38. Feb, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA

39. Feb, 1996 Cornell University Medical Center, New York, NY
40. June, 1996 Santa Fe Institute, Complex Systems Summer School, Santa Fe, NM
41. June, 1996 fMRI2Day Workshop, Human Brain Mapping Meeting, Boston, MA
42. June, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
43. Aug, 1996 University of Rochester, Rochester, NY
44. Sept, 1996 GE Medical Systems
45. Sept, 1996 Biophysics Research Institute, Milwaukee, WI
46. Oct, 1996 Norwegian Medical Physics Society Meeting, Oslo, Norway
47. Oct, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
48. Jan, 1997 University of Arizona, Tucson, AZ
49. Jan, 1997 University of California, San Diego, San Diego, CA
50. Feb, 1997 fMRI Symposium, Tsukuba, Japan
51. Feb, 1997 Hitachi Corporation, Tokyo, Japan
52. Feb, 1997 Marquette University Biomedical Engineering Dept., Milwaukee, WI
53. March, 1997 Third Midwest Course on fMRI, Minneapolis, MN
54. May, 1997 MGH traveling fMRI course, Perth, Australia
55. June, 1997 Functional MRI Conference, Trani, Italy
56. July, 1997 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
57. July, 1997 MGH traveling fMRI course, Oxford, England
58. Sept, 1997 Arterial Spin Labeling Conference, NIH, Bethesda, MD
59. Sept, 1997 Georgetown University, Washington D. C.
60. Oct, 1997 The Roland Institute, Cambridge, MA
61. Oct, 1997 MGH fMRI course, MGH-NMR Center, Charlestown, MA
62. Oct, 1997 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
63. Dec, 1997 MGH traveling fMRI course, Caen, France
64. Feb, 1998 International Neuropsychology Society, Honolulu, HI
65. Feb, 1998 MGH Training Workshop Lectures, Kauai, HI
66. April, 1998 MGH traveling fMRI course, Melbourne, Australia
67. May, 1998 Functional Brain Imaging Workshop, Helsinki, Finland
68. June, 1998 Humboldt University, Charite Hospital, Berlin, Germany
69. June, 1998 National Institutes of Health, Bethesda, MD
70. July, 1998 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
71. Aug, 1998 Biomag '98, Sendai, Japan
72. Oct, 1998 Functional MRI Workshop Lectures, Rome, Italy
73. Oct, 1998 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
74. Dec, 1998 Neuropsychopharmacology meeting lecture, Puerto Rico

75. Feb, 1999 Future of fMRI lecture at MCW.
76. June, 1999 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
77. June, 1999 OHBM educational course lecture, Duesseldorf, Germany
78. Aug, 1999 Cold Spring Harbor course on Brain Mapping, Cold Spring Harbor, NY
79. Sept. 1999 NIMH Intramural Retreat Lecture
80. Oct, 1999 Integrative Neuroscience Seminar, Building 49, NIH
81. Oct, 1999 NIH FAES course lecture
82. Nov, 1999 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
83. Jan, 2000 Yale School of Medicine, New Haven, Connecticut
84. Feb, 2000 University of British Columbia, Vancouver, BC
85. Feb, 2000 Purdue University, West Lafayette, Indiana
86. Feb, 2000 MCW graduate course on fMRI contrast, Milwaukee, WI
87. Feb, 2000 Marquette University Physics Department, Milwaukee, WI
88. May, 2000 Workshop on neurovascular coupling at Ringberg Castle, Germany
89. June, 2000 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
90. June, 2000 OHBM course on fMRI, San Antonio, TX
91. June, 2000 MGH-APA fMRI course, MGH-NMR Center, Charlestown, MA
92. July, 2000 Lecture for Grafman group, NINDS, NIH Bethesda, MD
93. Oct, 2000 3T Opening Lecture, Melbourne, Australia
94. Oct, 2000 APA - fMRI Workshop, San Diego, CA
95. Oct, 2000 Workshop on Understanding the BOLD Phenomena., Chapel Hill, NC.
96. April, 2001 fMRI Experience, Kings College, London, UK
97. May, 2001 William and Mary University, Williamsburg, VA
98. May, 2001 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
99. June, 2001 Workshop on neurovascular coupling, Tokyo, JP
100. June, 2001 OHBM education program, Brighton, UK
101. June, 2001 Brindizzi, Italy
102. June, 2001 3T scanner inauguration meeting, San Giovanni Rotundo, Italy
103. June, 2001 MGH-APA fMRI course, MGH-NMR Center, Charlestown, MA
104. July, 2001 FMRI database workshop, Dartmouth University, NH
105. Aug, 2001 International Cognitive Neuroscience Meeting, Beijing, China
106. Aug, 2001 Beijing Normal University, Beijing, China
107. Sept, 2001 University of Virginia, Charlottesville, VA
108. Sept, 2001 Uniformed Services University, Bethesda, MD
109. Oct, 2001 MCW fMRI course, Medical College of Wisc, Milwaukee, WI
110. Oct, 2001 Georgetown University, Washington DC

111. Jan, 2002 fMRI Training Course, University of Texas
112. March, 2002 Yale University, New Haven, CT
113. March, 2002 MGH fMRI course, MGH-NMR Center, Charlestown, MA
114. April, 2002 "Functional MRI: Past, Present, and Future." Gruss Magnetic Resonance Research Center, Albert Einstein College of Medicine of Yeshiva University.
115. May, 2002 "Latest Developments in Functional MRI." MCW fMRI course, Medical College of Wisc, Milwaukee, WI
116. May, 2002 "Are You fMRI Experienced?" FMRI Experience Conference, NIH, Bethesda, MD
117. June, 2002 "The Future of fMRI" OHBM 2002 Education Program, Sendai, JP
118. June, 2002 "fMRI: Past, Present, and Future," MGH fMRI Course, MGH NMR Center, Charlestown, MA
119. June, 2002 Workshop on using fMRI and rehabilitation research. Sugarloaf Conference Center, Philadelphia, PA
120. July, 2002 FMRI database workshop, Dartmouth University, NH
121. July, 2002 Summer School, Brain Sciences Institute, RIKEN, Tokyo, Japan
122. July, 2002 Beijing Normal University, Beijing, China
123. July, 2002 Key Laboratory of Cognitive Science, Chinese Academy of Sciences
124. Sept, 2002 West Virginia University, Morgantown, WV
125. Sept, 2002 Brainstorm 2002, Athens, Greece
126. Oct, 2002 MCW fMRI course, Milwaukee, WI
127. Oct, 2002 Functional MRI graduate course, MCW, Milwaukee, WI
128. Nov, 2002 UCLA Functional Brain Imaging Facility, LA, CA
129. Jan, 2003 Functional Imaging Laboratory, London, UK
130. Feb, 2003 NIH Cloisters, High School Teacher workshop,
131. March, 2003 Springdale High School, Silver Spring, MD
132. March, 2003 fMRI Experience V, Kings College London, England
133. April, 2003 LBC BSC Review presentation
134. May, 2003 Mitre Corporation, McClain, VA
135. May, 2003 MCW fMRI course, Milwaukee, WI
136. June, 2003 Ampere XI conference, Zakopane, Poland
137. June, 2003 OHBM 2003 morning symposium, New York
138. Aug, 2003 fMRI discussion group, NIH
139. Sept, 2003 Bio imaging Conference, Chieti, Italy
140. Sept, 2003 University of Udina, Italy
141. Oct, 2003 High Field Workshop, University of Minnesota

142. Oct, 2003 University of Wisconsin, Madison
 143. Oct, 2003 MCW fMRI course, Milwaukee, WI
 144. Oct, 2003 Georgetown University, Washington DC
 145. Nov, 2003 C.O.R.E. talk, NIH
 146. Jan, 2004 Rutgers University, NJ
 147. Feb, 2004 32'nd Annual International Neuropsychological Meeting, Baltimore, MD.
 148. March, 2004 National Academy of Sciences, Washington DC
 149. March, 2004 NIMH Outreach Partnership Program Meeting
 150. March, 2004 Presentation for Carmelite Priests
 151. April, 2004 Third International Symposium on Cognitive Neuroscience, Hong Kong, China
 152. April, 2004 NIH Director's Council of Public Representatives (COPR) tour
 153. May, 2004 26'th Annual International Symposium, Functional Neuroimaging: Methods and Clinical Applications, Montreal, CA.
 154. June, 2004 MCW fMRI course, Milwaukee, WI
 155. June, 2004 OHBM 2004 education program, Budapest
 156. June, 2004 NIMH Extramural Neuroscience Seminar, Bethesda
 157. June, 2004 The Workshop on Brain Imaging and Health Communication Research, Bethesda
 158. July, 2004 Gordon Conf: In Vivo MRI, Bates College, Maine
 159. Sept, 2004 NIH extramural Inter-Institute Imaging Group, Bethesda
 160. Nov, 2004 MCW fMRI course, Milwaukee, WI
 161. Nov, 2004 Max Plank fMRI school, Sorrento, Italy
 162. Jan, 2005 NIMH Outreach Partnership Program Meeting
 163. Jan, 2005 NINDS Incidental Findings Meeting, Bethesda, MD
 164. Jan, 2005 Presentation to Seneca Valley High School, Rockville, MD
 165. Feb, 2005 Functional MRI graduate course, MCW, Milwaukee, WI
 166. Feb, 2005 Marquette University Physics Department, Milwaukee, WI
 167. May, 2005 ISMRM 2005 education program, Miami, FL
 168. May, 2005 DIRP investigator seminar, NIH, Bethesda, MD
 169. May, 2005 American Psychiatric Association Meeting, Atlanta, GA
 170. June, 2005 OHBM 2005 education program, Toronto, CA
 171. June, 2005 MCW fMRI course, Milwaukee, WI
 172. Nov, 2005 MCW fMRI course, Milwaukee, WI
 173. Nov, 2005 Mini-Symposium, SFN, Washington, DC

